

## EXECUTIVE SUMMARY

Prepared May 5, 1999

Mine Name: Lynn Springs Quarry  
Operator: Utah Building Stone Supply  
842 West 400 North  
West Bountiful, Utah 84087  
Telephone: (801) 295-0601  
Contact Person: William Bown

I.D. No.: M/003/025  
County: Box Elder  
New/Existing: Existing Small Mining  
Mineral Ownership: BLM  
Surface Ownership: USFS Sawtooth Nat'l Forest  
Lease No.(s): \_\_\_\_\_  
Permit Term: Life of Mine

Life of Mine: 10 years

Legal Description: SE1/4 of Section 20, NE1/4 of Section 29, Township 14 North, Range 16 West, Box Elder County, Utah

Mineral(s) to be Mined: Quartzite and quartz-mica schist flagstone

Acres to be Disturbed: 8 acres

Present Land Use: Mining, livestock grazing, sport hunting, and OHV recreational travel

Postmining Land Use: Livestock grazing, sport hunting, and OHV recreational travel

Variances from Reclamation Standards (Rule R647) Granted: R647-4-111.12 Redistribution of Topsoil. Available topsoil will be salvaged but is not sufficient to cover the entire disturbed area at a sufficient depth to support vegetation. Available soil will be spread at 6-inch depth and areas that do not receive topsoil will be amended with composted manure at a rate of 10 ton per acre. This treatment is expected to establish sufficient vegetation to meet the established reclamation success standard of 20% ground cover.

### Soils and Geology

Soil Description: Soils at the quarry area are of the Raft River Series (Solak-Rock outcrop association). Soils in this association are poorly developed and range in depth of 0-8 inches. Organic matter is generally less than 1%. Permeability is moderate and erosion potential is high.

pH: 7.6-8.6

Special Handling Problems: Soil is very sparse in quarry area. Available soil will be stockpiled for reclamation.

Geology Description: Cambrian age quartzite from the Clarks Basin Formation. Quartzite bed is estimated to be approximately 100 feet thick.

### Hydrology

Ground Water Description: None encountered in previous mining activities. Depth to ground water is unknown in this area. Since there are no springs adjacent to or below the quarry area, impacts to ground water resources are not expected.

**Surface Water Description:** The quarry is located on a ridge, with no surface drainage onto the quarry area. No impacts to surface waters are expected.

**Water Monitoring Plan:** None required.

**Ecology**

**Vegetation Type(s); Dominant Species:** Vegetation in the quarry area is a Pinyon /Juniper woodland with sage brush, pinion pine, Utah juniper and bluebunch wheatgrass being dominant species.

**Percent Surrounding Vegetative Cover:** 28%

**Wildlife Concerns:** No threatened or endangered species or critical wildlife habitat exist within the permit area.

**Surface Facilities:** No surface facilities are planned for this site.

**Mining and Reclamation Plan Summary:**

**During Operations:**

Stone will be recovered from exposed ledges with a track excavator, possibly assisted by drilling and blasting to loosen the material. Stone will be split and loaded on pallets on site. Some material may be loaded into shuttle dump trucks for haul to a mill site near Park Valley, Utah for processing.

**After Operations:**

Concurrent reclamation will consist of pulling waste rock and subsoil back into the quarried out portions as the quarry face shifts north to south. This will be followed by contouring and smoothing of affected areas with a dozer and resspreading topsoil (when available) or composted manure at 10 ton per acre. Areas will be seeded with approved seed mixtures. Final reclamation will consist of regrading all disturbed areas not previously reclaimed, applying topsoil or composted manure and seeding. The access road on U.S. Forest Service lands will be ripped and seeded from the quarry to the junction with the Lynn Springs road.

Trash and any limited amount of waste materials will be kept in metal receptacles and periodically taken to the appropriate landfill. No buildings or camps are planned for the quarry.

**Surety**

**Amount:** \$15,500

**Form:** Surety Bond

**Renewable Term:** 5 years (2004 dollars)